



FIG. 1.

Spectral Dependencies	
	Material Absorption
	Gas Absorption

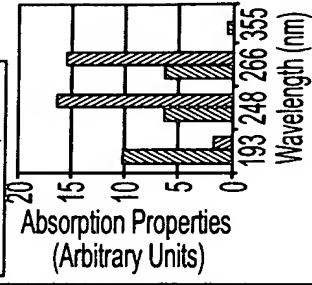


FIG. 2.

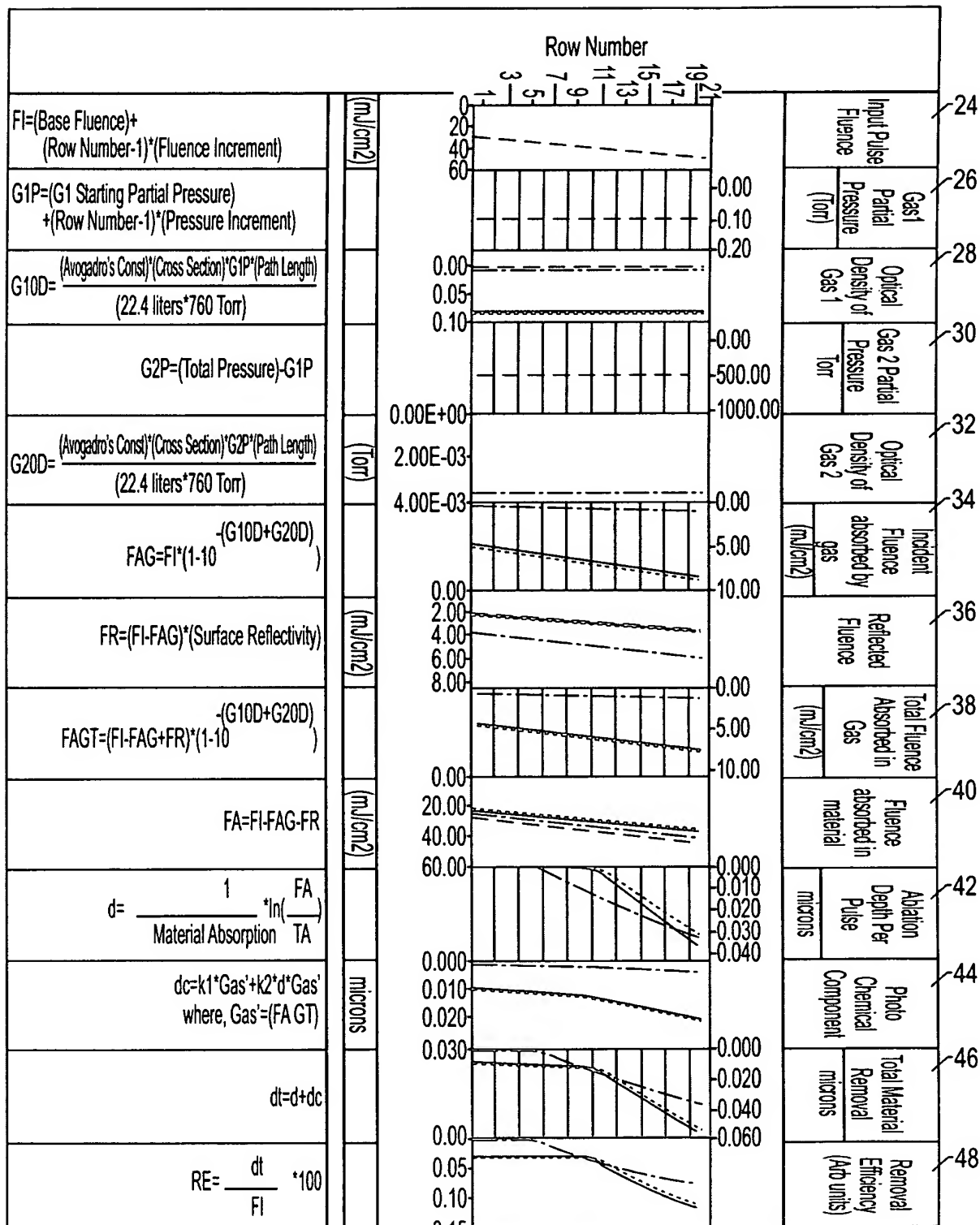


FIG. 3.

193 nm															24	26	28	30	32	34	36	38	40	42	44	46	48
Row Number	(mJ/cm2)	Input Pulse Fluence	(Torr)		Optical Density of Gas 1	Gas 2 Partial Pressure	Optical Density of Gas 2	Incident Fluence absorbed by gas	Reflected Fluence	(mJ/cm2)		Fluence absorbed in material	microns		Photo Chemical Component	microns		Removal Efficiency (arbitrary Units)									
			Gas1 Partial Pressure							Total Fluence Absorbed in Gas	Ablation Depth Per Pulse		Total Material Removal														
20		571	1.00		0.07	499.00	0.003573226	90.78	60.65	85.99	419.57	0.439	0.927	1.367		1.367	0.24										
19		541	1.00		0.07	499.00	0.003573226	86.01	57.46	81.47	397.53	0.434	0.870	1.304		1.304	0.24										
18		511	1.00		0.07	499.00	0.003573226	81.24	54.28	76.95	375.48	0.428	0.813	1.241		1.241	0.24										
17		481	1.00		0.07	499.00	0.003573226	76.47	51.09	72.44	353.44	0.422	0.756	1.178		1.178	0.25										
16		451	1.00		0.07	499.00	0.003573226	71.70	47.91	67.92	331.39	0.416	0.700	1.116		1.116	0.25										
15		421	1.00		0.07	499.00	0.003573226	66.93	44.72	63.40	309.35	0.409	0.645	1.054		1.054	0.25										
14		391	1.00		0.07	499.00	0.003573226	62.16	41.53	58.88	287.31	0.401	0.590	0.992		0.992	0.25										
13		361	1.00		0.07	499.00	0.003573226	57.39	38.35	54.36	265.26	0.393	0.536	0.930		0.930	0.26										
12		331	1.00		0.07	499.00	0.003573226	52.62	35.16	49.85	243.22	0.385	0.483	0.868		0.868	0.26										
11		301	1.00		0.07	499.00	0.003573226	47.85	31.97	45.33	221.17	0.375	0.431	0.806		0.806	0.27										
10		271	1.00		0.07	499.00	0.003573226	43.08	28.79	40.81	199.13	0.365	0.379	0.744		0.744	0.27										
9		241	1.00		0.07	499.00	0.003573226	38.31	25.60	36.29	177.09	0.353	0.329	0.682		0.682	0.28										
8		211	1.00		0.07	499.00	0.003573226	33.55	22.41	31.78	155.04	0.340	0.279	0.619		0.619	0.29										
7		181	1.00		0.07	499.00	0.003573226	28.78	19.23	27.26	133.00	0.324	0.231	0.556		0.556	0.31										
6		151	1.00		0.07	499.00	0.003573226	24.01	16.04	22.74	110.95	0.306	0.185	0.491		0.491	0.33										
5		121	1.00		0.07	499.00	0.003573226	19.24	12.85	18.22	88.91	0.284	0.140	0.424		0.424	0.35										
4		91	1.00		0.07	499.00	0.003573226	14.47	9.67	13.70	66.87	0.256	0.097	0.353		0.353	0.39										
3		61	1.00		0.07	499.00	0.003573226	9.70	6.48	9.19	44.82	0.216	0.058	0.274		0.274	0.45										
2		31	1.00		0.07	499.00	0.003573226	4.93	3.29	4.67	22.78	0.148	0.023	0.171		0.171	0.55										
1		1	1.00		0.07	499.00	0.003573226	0.16	0.11	0.15	0.73	0.000	0.000	0.000		0.000	0.03										

FIG. 4.